TDMS No. 99027 - 03

Test Type: CHRONIC

Species/Strain: RATS/F 344

Route: DOSED FEED

P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH AVERAGE SEVERITY GRADES[b]

CHROMIUM PICOLINATE MONOHYDRATE

CAS Number: 27882-76-4

F1_R2

C Number: C99027

Lock Date: 05/03/2005

Cage Range: ALL

Date Range: ALL

Reasons For Removal: ALL

Removal Date Range: ALL

Treatment Groups: Include ALL

TDMSE Version: 1.7.0

Date Report Regsted: 03/16/2007

Time Report Reqsted: 08:39:18
First Dose M/F: 08/12/02 / 08/12/02

Route: DOSED FEED

P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH AVERAGE SEVERITY GRADES[b]

CHROMIUM PICOLINATE MONOHYDRATE

CAS Number: 27882-76-4

Date Report Reqsted: 03/16/2007
Time Report Reqsted: 08:39:18

First Dose M/F: 08/12/02 / 08/12/02

Lab: SRI

Species/Strain: RATS/F 344

FISCHER 344 RATS MALE	0 PPM	2000 PPM	10000 PPM	50000 PPM	
isposition Summary					
Animals Initially in Study	50	50	50	50	
Early Deaths Moribund Sacrifice Natural Death Survivors	11 2	9 5	12 3	19 3	
Natural Death Terminal Sacrifice Animals Examined Microscopically	37 50	36 50	2 33 50	28 50	
LIMENTARY SYSTEM					
Intestine Large, Cecum	(48)	(48)	(48)	(50)	
Intestine Large, Colon Ulcer	(48)	(46)	(46)	(48) 1 [3.0]	
Intestine Large, Rectum	(48)	(48)	(48)	(50)	
Hemorrhage	(10)	1 [2.0]	(15)	(00)	
Intestine Small, Duodenum	(49)	(48)	(48)	(50)	
Intestine Small, Ileum	(49)	(45)	(47)	(45)	
Liver	(50)	(50)	(50)	(50)	
Angiectasis			2 [2.5]		
Basophilic Focus	27	32	29	27	
Clear Cell Focus	32	32	27	26 [1.0]	
Degeneration, Cystic	1 [2.0]	1 [1.0]	_	1 [1.0]	
Eosinophilic Focus	1	3	5	1	
Eosinophilic Focus, Multiple Hemorrhage	2 [2 0]	2 [4 7]	3 [3 0]	1	
Hemormage Hepatodiaphragmatic Nodule	2 [2.0] 7 [2.0]	3 [1.7] 8 [2.0]	3 [2.0] 6 [2.0]	1 [2.0] 3 [2.0]	
Inflammation, Chronic	7 [2.0] 1 [2.0]	0 [2.0]	0 [2.0]	3 [2.0] 1 [2.0]	
Mixed Cell Focus	1 [2.0] 4			3	
Necrosis, Focal	5 [1.2]	1 [2.0]	4 [1.8]	1 [1.0]	
Vacuolization Cytoplasmic	Ç [=]	1 [2.0]	. []	. []	
Bile Duct, Hyperplasia	23 [2.2]	11 [2.5]	14 [2.5]	9 [2.6]	
Centrilobular, Bile Stasis	- 1 1	t -1	ř - 1	1 [2.0]	
Centrilobular, Necrosis	4 [2.0]	3 [2.0]	2 [2.5]	3 [1.7]	
Centrilobular, Hepatocyte, Atrophy				1 [2.0]	
Hepatocyte, Vacuolization Cytoplasmic	8 [2.6]	4 [2.8]	9 [3.0]	6 [2.8]	

a - Number of animals examined microscopically at site and number of animals with lesion

b - Average severity grade (1-minimal; 2-mild; 3-moderate; 4-marked)

Species/Strain: RATS/F 344

Route: DOSED FEED

P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH AVERAGE SEVERITY GRADES[b]

CHROMIUM PICOLINATE MONOHYDRATE

CAS Number: 27882-76-4

Date Report Reqsted: 03/16/2007

Time Report Reqsted: 08:39:18
First Dose M/F: 08/12/02 / 08/12/02

FISCHER 344 RATS MALE	0 PPM	2000 PPM	10000 PPM	50000 PPM	
Portal Vein, Thrombosis, Focal		1 [3.0]			
Serosa, Fibrosis	1 [3.0]	1			
Serosa, Pigmentation	1 [3.0]				
Mesentery	(15)	(10)	(8)	(9)	
Accessory Spleen	3 [2.0]	. ,	1 [2.0]	,	
Hemorrhage	1 [3.0]				
Fat, Necrosis	10 [2.5]	7 [2.6]	5 [2.4]	6 [2.5]	
Oral Mucosa	(1)	(0)	(1)	(0)	
Hyperplasia	1 [3.0]	(-)	(-)	(-)	
Pancreas	(49)	(50)	(50)	(50)	
Atrophy	37 [1.7]	40 [2.0]	35 [1.6]	27 [1.9]	
Acinus, Hyperplasia, Focal	6 [2.5]	[=.0]	2 [2.5]	2 [3.0]	
Salivary Glands	(50)	(50)	(50)	(50)	
Atrophy	5 [1.6]	6 [1.0]	7 [1.3]	5 [1.4]	
Necrosis	0 [1.0]	1 [2.0]	, [1.0]	0 [1.1]	
Stomach, Forestomach	(49)	(49)	(50)	(50)	
Edema	1 [3.0]	2 [2.5]	4 [2.8]	1 [4.0]	
Erosion	1 [1.0]	ر2.5]	1 [3.0]	1 [2.0]	
Hemorrhage	1 [1.0]		1 [3.0]	1 [2.0]	
Hyperkeratosis	1 [2.0]		1 [3.0]	1 [2.0]	
Inflammation, Acute	1 [2.0]	1 [2.0]		1 [2.0]	
Inflammation, Chronic Active		1 [2.0] 1 [1.0]	1 [2.0]		
Ulcer	2 [4 0]	1 [1.0]	1 [2.0] 2 [2.7]	2 [2 7]	
	2 [4.0]	4 [4 0]	3 [2.7]	3 [3.7]	
Vacuolization Cytoplasmic	2 (2 2)	1 [4.0]	4 [2 0]	2 (2 2)	
Epithelium, Hyperplasia	3 [2.3]	5 [2.6]	4 [3.0]	3 [3.3]	
Stomach, Glandular	(49)	(49)	(50)	(50)	
Edema	4 [0 0]	4 [0.0]	1 [2.0]	0.00.01	
Erosion	1 [3.0]	1 [2.0]	1 [2.0]	3 [2.3]	
Hyperplasia, Focal	0.14.03	4 [0.0]	2 [4.0]	4.54.03	
Ulcer	3 [1.0]	1 [2.0]	2 [3.0]	1 [4.0]	
Tongue	(1)	(2)	(0)	(1)	
Epithelium, Hyperplasia		2 [2.0]		1 [2.0]	
RDIOVASCULAR SYSTEM					
Heart	(50)	(50)	(50)	(50)	
Cardiomyopathy Fibrosis	48 [1.9]	47 [1.7]	47 [1.5]	45 [1.7] 1 [3.0]	
Thrombosis	3 [1.7]	2 [2.0]	4 [2.3]	2 [2.5]	
Artery, Mineralization	5[]	1 [3.0]	. [2.0]	- [~]	

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b - Average severity grade (1-minimal; 2-mild; 3-moderate; 4-marked)

Species/Strain: RATS/F 344

Route: DOSED FEED

P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH AVERAGE SEVERITY GRADES[b]

CHROMIUM PICOLINATE MONOHYDRATE

CAS Number: 27882-76-4

Date Report Reqsted: 03/16/2007

Time Report Reqsted: 08:39:18
First Dose M/F: 08/12/02 / 08/12/02

FISCHER 344 RATS MALE	0 PPM	2000 PPM	10000 PPM	50000 PPM	
ENDOCRINE SYSTEM					
Adrenal Cortex	(50)	(49)	(50)	(50)	
Accessory Adrenal Cortical Nodule	5 [1.8]	22 [1.7]	23 [1.6]	15 [1.3]	
Angiectasis	1 [2.0]				
Degeneration, Fatty	12 [2.3]	7 [1.9]	8 [2.0]	8 [2.3]	
Hematopoietic Cell Proliferation				1 [1.0]	
Hemorrhage	1 [3.0]	2 [1.5]			
Hyperplasia, Focal	18 [2.0]	22 [2.1]	19 [1.8]	21 [1.6]	
Hypertrophy, Focal		1 [2.0]			
Necrosis	1 [3.0]			1 [2.0]	
Capsule, Hyperplasia			1 [2.0]		
Adrenal Medulla	(50)	(49)	(50)	(50)	
Angiectasis	1 [2.0]				
Hyperplasia	10 [2.0]	2 [2.0]	2 [1.5]	4 [2.3]	
Islets, Pancreatic	(50)	(50)	(50)	(50)	
Hyperplasia	6 [1.8]	4 [1.3]	3 [2.0]	2 [1.0]	
Parathyroid Gland	(45)	(48)	(49)	(47)	
Pituitary Gland	(50)	(49)	(50)	(50)	
Cyst		1 [3.0]			
Pars Distalis, Angiectasis				1 [2.0]	
Pars Distalis, Cyst	2 [3.0]	1 [3.0]	2 [3.0]	3 [3.0]	
Pars Distalis, Hemorrhage				1 [2.0]	
Pars Distalis, Hyperplasia, Focal	15 [2.2]	13 [2.5]	17 [2.2]	18 [2.4]	
Pars Distalis, Necrosis				1 [2.0]	
Pars Intermedia, Cyst				1 [3.0]	
Rathke's Cleft, Hemorrhage		1 [2.0]			
Thyroid Gland	(50)	(50)	(50)	(50)	
Ultimobranchial Cyst	1 [1.0]				
C-cell, Hyperplasia	10 [1.3]	5 [1.4]	13 [2.2]	6 [1.2]	
Follicular Cell, Hyperplasia		1 [3.0]			
GENERAL BODY SYSTEM					
Tissue NOS	(2)	(1)	(2)	(1)	
Hemorrhage	1 [2.0]				
Necrosis, Focal			1 [3.0]		

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Species/Strain: RATS/F 344

Route: DOSED FEED

P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH AVERAGE SEVERITY GRADES[b]

CHROMIUM PICOLINATE MONOHYDRATE

CAS Number: 27882-76-4

Date Report Reqsted: 03/16/2007

Time Report Reqsted: 08:39:18
First Dose M/F: 08/12/02 / 08/12/02

FISCHER 344 RATS MALE	0 PPM	2000 PPM	10000 PPM	50000 PPM	
GENITAL SYSTEM					
Epididymis	(49)	(50)	(50)	(50)	
Granuloma Sperm	1 [2.0]	(50)	1 [2.0]	(50)	
Preputial Gland	(50)	(50)	(50)	(50)	
Atrophy Cyst	4 [3.0]	3 [3.0]	3 [3.0]	1 [4.0] 2 [3.0]	
Hyperplasia	3 [2.7]	3 [3.0] 1 [4.0]	3 [3.0]	2 [3.0] 2 [2.5]	
Inflammation, Chronic	26 [2.3]	35 [2.1]	30 [2.0]	25 [2.0]	
Prostate	(50)	(50)	(50)	(50)	
Cyst	()	1 [2.0]	1 [3.0]	1 [3.0]	
Inflammation, Chronic	8 [2.5]	12 [2.4]	10 [2.3]	11 [2.3]	
Epithelium, Hyperplasia	4 [1.8]	9 [1.2]	11 [1.4]	4 [1.5]	
Seminal Vesicle	(50)	(50)	(50)	(50)	
Inflammation, Chronic	1 [2.0]				
Bilateral, Cyst			1 [4.0]		
Epithelium, Hyperplasia	(=0)	(50)	1 [1.0]	(50)	
Testes	(50)	(50)	(50)	(50)	
Mineralization	1 [4.0]				
Thrombosis, Focal Germinal Epithelium, Atrophy	1 [3.0] 11 [3.5]	9 [3.1]	12 [3.1]	11 [3.3]	
Interstitial Cell, Hyperplasia	11 [3.5]	3 [1.7]	4 [2.3]	5 [1.2]	
HEMATOPOIETIC SYSTEM					
Bone Marrow	(50)	(50)	(50)	(50)	
Depletion Cellular		1 [2.0]			
Myelofibrosis	3 [1.7]	1 [3.0]	(40)	3 [2.7]	
Lymph Node	(15)	(15)	(13)	(17)	
Hyperplasia, Lymphoid Mediastinal, Ectasia		1 [2.0]	4 [2 0]	4 [2 0]	
Mediastinal, Ectasia Mediastinal, Hemorrhage	2 [2.5]	2 [2.0] 2 [2.5]	1 [3.0] 1 [3.0]	1 [2.0] 1 [2.0]	
Mediastinal, Hyperplasia, Lymphoid	2 [2.5] 1 [2.0]	2 [2.5]	1 [3.0] 1 [4.0]	1 [2.0] 1 [2.0]	
Mediastinal, Pigmentation	1 [3.0]		1 [4.0]	1 [2.0]	
Pancreatic, Ectasia	1 [2.0]	1 [3.0]	2 [3.0]	4 [2.0]	
Pancreatic, Hemorrhage	2 [2.5]	. [0.0]	1 [2.0]	1 [3.0]	
Pancreatic, Hyperplasia, Lymphoid	1 [2.0]		. [1	1 [2.0]	
Pancreatic, Infiltration Cellular, Histiocyte				1 [2.0]	
Renal, Ectasia		1 [3.0]			
Renal, Hyperplasia, Lymphoid		1 [3.0]			

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Species/Strain: RATS/F 344

Route: DOSED FEED

P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH AVERAGE SEVERITY GRADES[b]

CHROMIUM PICOLINATE MONOHYDRATE

CAS Number: 27882-76-4

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FISCHER 344 RATS MALE	0 PPM	2000 PPM	10000 PPM	50000 PPM	
Lymph Node, Mandibular	(2)	(0)	(1)	(2)	
Lymph Node, Mesenteric	(50)	(5 0)	(50)	(5 0)	
Atrophy	1 [3.0]				
Ectasia	2 [3.5]		2 [3.0]	5 [3.0]	
Hemorrhage	1 [2.0]	1 [2.0]			
Hyperplasia, Reticulum Cell	1 [4.0]		1 [2.0]	1 [4.0]	
Spleen	(50)	(50)	(50)	(50)	
Fibrosis			1 [4.0]	1 [3.0]	
Hematopoietic Cell Proliferation	3 [2.3]	1 [2.0]	2 [3.5]	4 [2.8]	
Hemorrhage	1 [3.0]				
Metaplasia, Osseous			1 [1.0]		
Necrosis	2 [3.0]				
Pigmentation	26 [2.2]	29 [2.3]	28 [2.4]	33 [2.2]	
Thrombosis	00.14.01	0.74.03	0.50.01	1 [1.0]	
Lymphoid Follicle, Hyperplasia	20 [1.9]	9 [1.9]	8 [2.3]	14 [1.6]	
Thymus	(48)	(45)	(48)	(48)	
Atrophy	37 [3.0]	40 [3.1]	36 [3.2]	35 [3.3]	
Hemorrhage		1 [2.0]			
INTEGUMENTARY SYSTEM					
Mammary Gland	(49)	(50)	(50)	(49)	
Cyst	3 [3.0]	1 [3.0]	3 [3.0]	6 [3.0]	
Hyperplasia	8 [1.6]	13 [1.4]	20 [1.9]	9 [1.6]	
Skin	(50)	(50)	(50)	(50)	
Cyst Epithelial Inclusion	(30)	(30)	1	4	
Hyperkeratosis	2 [1.5]	3 [4.0]	3 [4.0]	1 [4.0]	
Inflammation, Chronic	2 [1.0]	0 [4.0]	1 [2.0]	1 [4.0]	
Ulcer			1 [4.0]		
Epidermis, Hyperplasia		3 [3.3]	3 [3.3]	1 [3.0]	
Pinna, Ulcer		0 [0.0]	0 [0.0]	1 [4.0]	
				. []	
MUSCULOSKELETAL SYSTEM					
Bone	(50)	(50)	(50)	(50)	
Osteopetrosis	2 [2.5]	()	1 [2.0]	` '	
Skeletal Muscle	(2)	(1)	(0)	(3)	
Hemorrhage	1 [4.0]	` '	. ,	, ,	
Necrosis	1 [3.0]				

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Species/Strain: RATS/F 344

Route: DOSED FEED

P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH AVERAGE SEVERITY GRADES[b]

CHROMIUM PICOLINATE MONOHYDRÂTE

CAS Number: 27882-76-4

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FISCHER 344 RATS MALE	0 PPM	2000 PPM	10000 PPM	50000 PPM	
NERVOUS SYSTEM					
Brain	(50)	(50)	(50)	(50)	
Compression Edema, Focal	5 [2.4]	4 [2.5]	4 [3.0]	5 [3.0] 1 [1.0]	
Hemorrhage	6 [1.2]	8 [1.4]	5 [1.2]	1 [1.0]	
Metaplasia, Lipocyte, Focal				1 [2.0]	
Necrosis Thrombosis	1 [2.0]	2 [3.0] 1 [2.0]	2 [3.0]	1 [1.0]	
THIOTIDOSIS		1 [2.0]		1 [1.0]	
RESPIRATORY SYSTEM					
Lung	(50)	(50)	(50)	(50)	
Fibrosis	0.54.53	0.10.01	0.70.01	1 [2.0]	
Hemorrhage Infiltration Cellular, Eosinophil	2 [1.5]	3 [2.3] 1 [2.0]	3 [2.3]		
Infiltration Cellular, Eosmophii Infiltration Cellular, Histiocyte	43 [1.0]	1 [2.0] 47 [1.0]	41 [1.0]	43 [1.1]	
Inflammation, Chronic	40 [1.0]	1 [2.0]	3 [1.7]	2 [1.0]	
Metaplasia, Osseous	5 [1.2]	4 [1.0]	3 [1.0]	2 [2.0]	
Metaplasia, Squamous, Focal		1 [2.0]		,	
Alveolar Epithelium, Hyperplasia	13 [1.5]	11 [1.6]	15 [1.7]	19 [1.6]	
Alveolar Epithelium, Metaplasia, Squamous				1 [4.0]	
Nose	(50)	(50)	(50)	(50)	
Foreign Body	12 [1.3]	9 [1.6]	6 [1.3]	3 [2.0]	
Inflammation, Chronic Thrombosis	11 [1.3]	16 [1.9]	11 [1.4]	7 [1.9]	
Goblet Cell, Hyperplasia	1 [1.0]	1 [3.0]	1 [3.0]		
Respiratory Epithelium, Hyperplasia	1 [1.0]	1 [5.0]	1 [2.0]		
Respiratory Epithelium, Metaplasia,		2 [2.5]	1 [2.0]		
Squamous		_ [0]			
Trachea	(50)	(50)	(50)	(50)	
SPECIAL SENSES SYSTEM					
Ear	(1)	(0)	(0)	(0)	
Hemorrhage	1 [2.0]	ζ-/	(-/	(-/	
External Ear, Inflammation, Acute	1 [2.0]				
Eye	(50)	(50)	(50)	(50)	

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TDMS No. 99027 - 03
Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/F 344

P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH AVERAGE SEVERITY GRADES[b]

CHROMIUM PICOLINATE MONOHYDRATE

CAS Number: 27882-76-4

Date Report Reqsted: 03/16/2007

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First Dose M/F: 08/12/02 / 08/12/02

Lab: SRI

FISCHER 344 RATS MALE	0 PPM	2000 PPM	10000 PPM	50000 PPM	
Cataract	1 [2.0]	3 [2.7]	3 [2.3]	2 [1.0]	
Degeneration Pigmentation, Hemosiderin, Focal			1 [3.0]	1 [2.0]	
Retinal Detachment, Focal				1 [2.0]	
Retina, Degeneration	1 [1.0]	1 [4.0]		,	
Retina, Necrosis, Focal				1 [3.0]	
Harderian Gland	(50)	(50)	(50)	(50)	
Hyperplasia, Focal		1 [1.0]	4-3	4-1	
Zymbal's Gland	(0)	(1)	(0)	(0)	
RINARY SYSTEM					
Kidney	(50)	(49)	(50)	(50)	
Cyst	1 [3.0]			1 [3.0]	
Infarct			2 [2.0]	1 [2.0]	
Inflammation, Suppurative	1 [1.0]	4-74-1	47.74.01	40.54.51	
Nephropathy	50 [1.8]	47 [1.7]	47 [1.6]	48 [1.5]	
Thrombosis		2 [4 5]	1 [1.0]		
Pelvis, Dilatation Renal Tubule, Hyperplasia	3 [1.0]	2 [1.5]	5 [1.0]	3 [1.0]	
Renal Tubule, Necrosis	3 [1.0]	1 [1.0]	3 [1.0]	3 [1.0]	
Transitional Epithelium, Hyperplasia	1 [1.0]	3 [1.7]	1 [2.0]	1 [1.0]	
Urethra	(0)	(1)	(1)	(0)	
Angiectasis	,	1 [3.0]	,	· /	
Bulbourethral Gland, Cyst			1 [3.0]		
Urinary Bladder	(50)	(50)	(50)	(50)	
Edema	1 [2.0]				
Hemorrhage	1 [2.0]	1 [3.0]	4.54.03	4 50 01	
Inflammation, Chronic	1 [2.0]		1 [1.0]	1 [2.0]	

*** END OF MALE ***

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Species/Strain: RATS/F 344

Route: DOSED FEED

P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH AVERAGE SEVERITY GRADES[b]

CHROMIUM PICOLINATE MONOHYDRATE

CAS Number: 27882-76-4

Date Report Reqsted: 03/16/2007
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First Dose M/F: 08/12/02 / 08/12/02

Animals Initially in Study	50				
Barly Deaths Moribund Sacrifice	50				isposition Summary
Moribund Sacrifice 11 13 11 Natural Death 3 2 3 Survivors Natural Death 1 Terminal Sacrifice 35 35 36 Animals Examined Microscopically 50 50 50 Animals Examined Microscopically 50 (50) (50) Maintenance 35 35 36 Animals Examined Microscopically 50 50 50 Animals Examined Microscopically 50 50 50 MAINTENANCE 50 50 50 Maintenance 650 (50) (50) (50) Intestine Large, Colon (47) (48) (50) (50) Intestine Large, Colon (46) (49) (50) (50) (50) (50) Necrosis, Lymphocyte 1[1.0] (50) (50) Necrosis, Lymphocyte 1[1.0] 44 46 [1.0] (50) Anjectasis 2[1.5] 2[1.5] 4 [2.5] Anjectasis 1[1.0] 1[1.0]	30	50	50	50	
Natural Death 3	8	11	13	11	
Natural Death	2				
Terminal Sacrifice 35 35 36		-		-	
Animals Examined Microscopically 50 50 50 ALIMENTARY SYSTEM Esophagus (50) (50) (50) (50) Infiltration Cellular, Lymphocyte Intestine Large, Colon (47) (48) (50) Intestine Small, Ileum (46) (49) (50) Necrosis, Lymphoid 1[1.0] Liver (50) (50) (50) (50) Angiectasis Basophilic Focus 41 [4.0] 44 46 [1.0] Clear Cell Focus 27 23 22 Degeneration, Cystic 1[1.0] Eosinophilic Focus 1 [1.0] Eosinophilic Focus 1 [1.0] 1 [1.0] Hemorrhage 1 [1.0] 1 [1.0] 1 [1.0] Hepatodiaphragmatic Nodule 8 [2.0] 8 [2.0] 8 [2.0] Hypertrophy, Focal 1 [2.0] Infiltration Cellular, Lymphocyte Inflammation, Chronic 3 [2.0] 1 [2.0] 4 [2.5] Mixed Cell Focus 2 [1.5]	1				
ALIMENTARY SYSTEM Esophagus (50) (50) (50) Infiltration Cellular, Lymphocyte Intestine Large, Colon (47) (48) (50) Intestine Small, Ileum (46) (49) (50) Necrosis, Lymphoid (50) Liver (50) (50) (50) Angiectasis Basophilic Focus 41 [4.0] 44 46 [1.0] Clear Cell Focus 27 23 22 Degeneration, Cystic 1[1.0] Eosinophilic Focus 1 [1.0] Eosinophilic Focus 1 [1.0] Hemorrhage 1 [1.0] 1 [1.0] 1 [1.0] Hepatodiaphragmatic Nodule 8 [2.0] 8 [2.0] Hypertrophy, Focal 1[2.0] Infiltration Cellular, Lymphocyte Inflammation, Chronic 3 [2.0] 1 [2.0] 4 [2.5] Mixed Cell Focus 2 [1.5]	39		35		
Esophagus Infiltration Cellular, Lymphocyte Intestine Large, Colon Intestine Small, Ileum (46) Necrosis, Lymphoid Liver (50) Angiectasis Basophilic Focus Clear Cell Focus Degeneration, Cystic Eosinophilic Focus Eosinophilic Focus, Multiple Hemorrhage Hepatodiaphragmatic Nodule Hepatodiaphragmatic Nodule Infiltration Cellular, Lymphocyte Inflammation, Chronic Mixed Cell Focus 1 (50) (48) (48) (50) (50) (50) (50) (50) (50) (50) (50	50	50	50	50	Animals Examined Microscopically
Infiltration Cellular, Lymphocyte Intestine Large, Colon					
Intestine Large, Colon	(50)	(50)	(50)	(50)	
Intestine Small, Ileum	1 [3.0]	(50)	(40)	(47)	Infiltration Cellular, Lymphocyte
Necrosis, Lymphoid	(48)	(50)			Intestine Large, Colon
Liver (50) (50) (50) (50) Angiectasis Basophilic Focus 41 [4.0] 44 46 [1.0] Clear Cell Focus 27 23 22 Degeneration, Cystic 1 [1.0] Eosinophilic Focus 1 Eosinophilic Focus 1 Hemorrhage 1 [1.0] 1 [1.0] 1 [1.0] Hepatodiaphragmatic Nodule 8 [2.0] 8 [2.0] Hypertrophy, Focal 1 [2.0] Infiltration Cellular, Lymphocyte Inflammation, Chronic 3 [2.0] 1 [2.0] 4 [2.5] Mixed Cell Focus 1 Necrosis, Focal 2 [1.5]	(47)		(49)	(46)	
Angiectasis Basophilic Focus	(50)	(50)	(50)	(50)	
Basophilic Focus 41 [4.0] 44 46 [1.0] Clear Cell Focus 27 23 22 Degeneration, Cystic 1 [1.0] 1 Eosinophilic Focus 1 1 Eosinophilic Focus, Multiple 1 1 Hemorrhage 1 [1.0] 1 [1.0] 1 [1.0] Hepatodiaphragmatic Nodule 8 [2.0] 8 [2.0] 8 [2.0] Hypertrophy, Focal 1 [2.0] 8 [2.0] 1 [2.0] Infiltration Cellular, Lymphocyte 3 [2.0] 1 [2.0] 4 [2.5] Mixed Cell Focus 1 4 Necrosis, Focal 2 [1.5] 2 [1.5]	1 [1.0]	(00)	(00)	(00)	
Clear Cell Focus 27 23 22 Degeneration, Cystic 1 [1.0] 1 Eosinophilic Focus 1 1 Eosinophilic Focus, Multiple 1 1 Hemorrhage 1 [1.0] 1 [1.0] 1 [1.0] Hepatodiaphragmatic Nodule 8 [2.0] 8 [2.0] 8 [2.0] Hypertrophy, Focal 1 [2.0] 8 [2.0] 1 [2.0] Infiltration Cellular, Lymphocyte 1 [2.0] 4 [2.5] Mixed Cell Focus 1 4 Necrosis, Focal 2 [1.5] 2 [1.5]	44	46 [1.0]	44	41 [4.0]	
Eosinophilic Focus 1 Eosinophilic Focus, Multiple 1 Hemorrhage 1 [1.0] 1 [1.0] 1 [1.0] Hepatodiaphragmatic Nodule 8 [2.0] 8 [2.0] 8 [2.0] Hypertrophy, Focal 1 [2.0] 1 [2.0] Infiltration Cellular, Lymphocyte 3 [2.0] 1 [2.0] 4 [2.5] Mixed Cell Focus 1 4 Necrosis, Focal 2 [1.5] 2 [1.5]	21	22	23		
Eosinophilic Focus, Multiple 1 Hemorrhage 1 [1.0] 1 [1.0] 1 [1.0] Hepatodiaphragmatic Nodule 8 [2.0] 8 [2.0] 8 [2.0] Hypertrophy, Focal 1 [2.0] 1 [2.0] Infiltration Cellular, Lymphocyte 1 [2.0] 4 [2.5] Infilemmation, Chronic 3 [2.0] 1 [2.0] 4 [2.5] Mixed Cell Focus 1 4 Necrosis, Focal 2 [1.5] 2 [1.5]					
Hemorrhage 1 [1.0] 1 [1.0] 1 [1.0] 1 [1.0] Hepatodiaphragmatic Nodule 8 [2.0] 8 [2.0] 8 [2.0] Hypertrophy, Focal 1 [2.0] 1 [2.0] 1 [2.0] Infiltration Cellular, Lymphocyte 3 [2.0] 1 [2.0] 4 [2.5] Mixed Cell Focus 1 4 Necrosis, Focal 2 [1.5] 2 [1.5]	1		1		Eosinophilic Focus
Hepatodiaphragmatic Nodule 8 [2.0] 8 [2.0] 8 [2.0] Hypertrophy, Focal 1 [2.0] Infiltration Cellular, Lymphocyte 1 [2.0] 4 [2.5] Inflammation, Chronic 3 [2.0] 1 [2.0] 4 [2.5] Mixed Cell Focus 1 4 Necrosis, Focal 2 [1.5] 2 [1.5]		•	4.54.03	4.54.03	Eosinophilic Focus, Multiple
Hypertrophy, Focal 1 [2.0] Infiltration Cellular, Lymphocyte 1 [2.0] Inflammation, Chronic 3 [2.0] 1 [2.0] 4 [2.5] Mixed Cell Focus 1 4 Necrosis, Focal 2 [1.5] 2 [1.5]	0.12.01				
Infiltration Cellular, Lymphocyte Inflammation, Chronic 3 [2.0] 1 [2.0] 4 [2.5] Mixed Cell Focus 1 4 Necrosis, Focal 2 [1.5] 2 [1.5]	8 [2.0]	٥ ز۷.۵]	٥ [٤.٠]		
Inflammation, Chronic 3 [2.0] 1 [2.0] 4 [2.5] Mixed Cell Focus 1 4 Necrosis, Focal 2 [1.5] 2 [1.5]	1 [2.0]			ا زک.ن	Infiltration Cellular Lymphocyte
Mixed Cell Focus 1 4 Necrosis, Focal 2 [1.5] 2 [1.5]	2 [1.5]	4 [2.5]	1 [2.0]	3 [2.0]	Inflammation. Chronic
Necrosis, Focal 2 [1.5] 2 [1.5]	3			0 [=.0]	
	3 [1.3]	2 [1.5]			
	1 [1.0]			2 [3.0]	Thrombosis
Bile Duct, Hyperplasia 3 [2.3] 6 [2.3] 5 [2.0]	2 [3.0]		6 [2.3]	3 [2.3]	
Centrilobular, Necrosis 4 [2.8] 1 [2.0] 1 [2.0]	1 [2.0]			4 [2.8]	
Hepatocyte, Vacuolization Cytoplasmic 6 [3.3] 3 [3.3] 6 [2.3]	5 [2.6]				
Mesentery (11) (6) (7) Accessory Spleen 1	(13) 2	(7)	(6)	(11)	

a - Number of animals examined microscopically at site and number of animals with lesion

b - Average severity grade (1-minimal; 2-mild; 3-moderate; 4-marked)

Species/Strain: RATS/F 344

Route: DOSED FEED

P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH AVERAGE SEVERITY GRADES[b]

CHROMIUM PICOLINATE MONOHYDRÂTE

CAS Number: 27882-76-4

Date Report Reqsted: 03/16/2007

Time Report Reqsted: 08:39:18
First Dose M/F: 08/12/02 / 08/12/02

FISCHER 344 RATS FEMALE	0 PPM	2000 PPM	10000 PPM	50000 PPM	
Fibrosis			1 [2.0]		
Fat, Necrosis	11 [3.0]	6 [2.0]	5 [2.8]	12 [2.3]	
Oral Mucosa	(0)	(0)	(1)	(0)	
Pancreas	(49)	(50)	(50)	(50)	
Atrophy	21 [1.5]	27 [1.3]	27 [1.6]	26 [1.3]	
Metaplasia, Hepatocyte		1 [2.0]			
Necrosis				1 [3.0]	
Acinus, Hyperplasia, Focal	1 [2.0]		1 [2.0]	1 [2.0]	
Salivary Glands	(50)	(50)	(50)	(50)	
Atrophy	11 [1.2]	19 [1.1]	19 [1.1]	16 [1.´1]	
Cyst		1 [3.0]	- 1	- 1 1	
Vacuolization Cytoplasmic		r1	1 [3.0]		
Stomach, Forestomach	(49)	(50)	(50)	(50)	
Edema	1 [2.0]	1 [4.0]	(55)	1 [2.0]	
Erosion	. [=.0]	. [•]		1 [2.0]	
Inflammation, Acute	1 [1.0]			. [2.0]	
Inflammation, Chronic Active	1 [2.0]				
Ulcer	1 [2.0]	2 [3.0]	1 [4.0]	2 [3.5]	
Epithelium, Hyperplasia	2 [3.5]	1 [2.0]	1 [4.0]	1 [2.0]	
Stomach, Glandular	(49)	(50)	(50)	(50)	
Edema	(49)	3 [2.3]	(30)	(30)	
Erosion	2 [2.5]	3 [1.3]	1 [1.0]	2 [1.0]	
Inflammation, Acute	۷ [۷.۵]	1 [2.0]	1 [1.0]	2 [1.0]	
Ulcer	1 [4 0]	1 [3.0]			
Tongue	1 [4.0] (1)	(0)	(3)	(2)	
Hyperkeratosis	(1)	(0)	1 [4.0]	(2)	
	4 [2 0]		1 [4.0]	2 [2 0]	
Epithelium, Hyperplasia	1 [2.0]		2 [3.0]	2 [2.0]	
ARDIOVASCULAR SYSTEM					
Heart	(50)	(50)	(50)	(50)	
Cardiomyopathy	44 [1.3]	44 [1.2]	47 [1.2]	46 [1.2]	
Inflammation, Chronic	11 [1.3]	77 [1.2]	47 [1.2] 1 [1.0]	40 [1.2]	
Thrombosis	3 [2.3]		1 [1.0]		
HIUHUUSIS	<u> </u>				
NDOCRINE SYSTEM					
Adrenal Cortex	(50)	(50)	(50)	(50)	
Accessory Adrenal Cortical Nodule	4 [1.3]	10 [1.8]	9 [1.8]	9 [1.4]	
Accessory Auterial Cortical Nodule	- [1.0]	10 [1.0]	ə [1.0]	ן ד.ון	

a - Number of animals examined microscopically at site and number of animals with lesion

b - Average severity grade (1-minimal; 2-mild; 3-moderate; 4-marked)

TDMS No. 99027 - 03

Test Type: CHRONIC

Species/Strain: RATS/F 344

Route: DOSED FEED

P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH AVERAGE SEVERITY GRADES[b]

CHROMIUM PICOLINATE MONOHYDRATE

CAS Number: 27882-76-4

Date Report Reqsted: 03/16/2007

Time Report Reqsted: 08:39:18
First Dose M/F: 08/12/02 / 08/12/02

FISCHER 344 RATS FEMALE	0 PPM	2000 PPM	10000 PPM	50000 PPM	
Angiectasis	1 [2.0]	1 [3.0]	2 [2.0]		
Degeneration, Cystic	1	3 [2.3]	1 -1		
Degeneration, Fatty	6 [1.7]	5 [2.2]	2 [3.0]	3 [2.0]	
Hematopoietic Cell Proliferation	- 1		1 [1.0]		
Hemorrhage	1 [2.0]	3 [1.7]	1 [2.0]		
Hyperplasia, Focal	12 [2.0]	20 [1.7]	26 [1.8]	24 [1.8]	
Hypertrophy	2 [3.5]	5 [1.8]	3 [2.3]	7 [2.0]	
Hypertrophy, Focal			1 [1.0]		
Necrosis	2 [2.0]		1 [1.0]	1 [1.0]	
Vacuolization Cytoplasmic	1 [4.0]	2 [3.0]		1 [2.0]	
Adrenal Medulla	(50)	(49)	(50)	(50)	
Hyperplasia	, ,	4 [1.5]	, ,	1 [2.0]	
Islets, Pancreatic	(49)	(50)	(50)	(50)	
Angiectasis, Focal	,	1 [1.0]	,	,	
Hyperplasia	1 [1.0]	2 [2.0]	3 [3.0]	1 [2.0]	
Parathyroid Gland	(48)	(49)	(48)	(43)	
Pituitary Gland	(49)	(50)	(50)	(50)	
Hemorrhage	, ,	, ,	1 [1.0]	1 [3.0]	
Pars Distalis, Angiectasis	1 [3.0]	1 [2.0]	3 [3.0]	1 [3.0]	
Pars Distalis, Cyst	11 [3.0]	8 [3.0]	9 [3.0]	11 [3.0]	
Pars Distalis, Hyperplasia, Focal	15 [2.2]	7 [2.7]	9 [2.9]	12 [2.6]	
Pars Distalis, Infiltration Cellular,		1 [2.0]		• •	
Mononuclear Cell					
Pars Distalis, Pigmentation		1 [1.0]			
Pars Intermedia, Angiectasis	1 [2.0]		1 [2.0]		
Pars Intermedia, Cyst	1 [3.0]		2 [3.0]	1 [3.0]	
Rathke's Cleft, Hemorrhage	1 [2.0]		1 [3.0]		
Thyroid Gland	(49)	(50)	(50)	(50)	
Últimobranchial Cyst	1 [2.0]	5 [3.0]			
C-cell, Hyperplasia	25 [1.7]	29 [1.5]	24 [1.3]	21 [1.1]	
ENERAL BODY SYSTEM					
None					
ENITAL SYSTEM					
Clitoral Gland	(50)	(50)	(50)	(50)	
Cyst	2 [3.0]	5 [3.0]	2 [3.0]	5 [3.0]	

a - Number of animals examined microscopically at site and number of animals with lesion

b - Average severity grade (1-minimal; 2-mild; 3-moderate; 4-marked)

Species/Strain: RATS/F 344

Route: DOSED FEED

P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH AVERAGE SEVERITY GRADES[b]

CHROMIUM PICOLINATE MONOHYDRATE

CAS Number: 27882-76-4

Date Report Reqsted: 03/16/2007

Time Report Reqsted: 08:39:18 First Dose M/F: 08/12/02 / 08/12/02

FISCHER 344 RATS FEMALE	0 PPM	2000 PPM	10000 PPM	50000 PPM	
Hyperplasia	8 [2.4]	10 [2.6]	11 [2.6]	4 [2.3]	
Inflammation, Chronic	4 [2.3]	5 [2.0]	3 [2.7]	3 [1.7]	
Ovary	(50)	(50)	(50)	(50)	
Cyst	8 [3.0]	5 [3.0]	6 [3.0]	7 [3.0]	
Uterus	(50)	(50)	(50)	(50)	
Angiectasis				1 [3.0]	
Hemorrhage	1 [4.0]				
Hyperplasia, Cystic	17 [2.1]	30 [1.7]	24 [1.6]	19 [1.9]	
Inflammation, Suppurative	1 [2.0]	1 [3.0]		1 [3.0]	
Inflammation, Chronic		1 [1.0]	1 [2.0]		
Cervix, Hemorrhage	1 [2.0]				
Vagina	(5)	(6)	(1)	(3)	
Inflammation				1 [2.0]	
EMATOPOIETIC SYSTEM					
Bone Marrow	(50)	(50)	(50)	(50)	
Infiltration Cellular, Histiocyte		1 [4.0]			
Myelofibrosis	2 [3.5]	3 [1.3]	1 [1.0]		
Lymph Node	(9)	(10)	(11)	(7)	
Deep Cervical, Ectasia	1 [2.0]				
Deep Cervical, Hemorrhage	1 [2.0]				
Deep Cervical, Hyperplasia, Lymphoid	1 [2.0]	0.10.51	4.54.03	4 [0.0]	
Mediastinal, Ectasia	3 [2.0]	2 [2.5]	1 [4.0]	1 [2.0]	
Mediastinal, Hemorrhage	2 [2.0]	2 [3.0]	3 [2.0]	4 [0 0]	
Mediastinal, Hyperplasia	4 [2 0]		2 [2 5]	1 [2.0]	
Mediastinal, Hyperplasia, Lymphoid Mediastinal, Pigmentation	1 [2.0] 2 [2.0]		2 [2.5]	1 [2.0]	
Mediastinal, Pigmentation Mediastinal, Pigmentation, Hemosiderin	ک زک.۷]	2 [2.0]			
Pancreatic, Ectasia		ک زک.∪ا	1 [3.0]		
Pancreatic, Hemorrhage		1 [1.0]	1 [2.0]	1 [2.0]	
Pancreatic, Hyperplasia, Lymphoid		1 [1.0]	1 [2.0]	1 [2.0] 1 [4.0]	
Pancreatic, Pigmentation			، رح.٠	1 [2.0]	
Lymph Node, Mandibular	(1)	(3)	(1)	(0)	
Ectasia	1 [1.0]	1 [2.0]	1 [2.0]	(=)	
Hyperplasia, Lymphoid	1 [2.0]	. []	. []		
Lymph Node, Mesenteric	(50)	(50)	(50)	(50)	
Ectasia	\ -/	()	1 [3.0]	,	
Hemorrhage	1 [1.0]				

a - Number of animals examined microscopically at site and number of animals with lesion

b - Average severity grade (1-minimal; 2-mild; 3-moderate; 4-marked)

Species/Strain: RATS/F 344

Route: DOSED FEED

P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH AVERAGE SEVERITY GRADES[b]

CHROMIUM PICOLINATE MONOHYDRATE

CAS Number: 27882-76-4

Date Report Reqsted: 03/16/2007Time Report Reqsted: 08:39:18

First Dose M/F: 08/12/02 / 08/12/02

FISCHER 344 RATS FEMALE	0 PPM	2000 PPM	10000 PPM	50000 PPM	
Pigmentation, Hemosiderin Spleen Fibrosis Hematopoietic Cell Proliferation Hemorrhage Hyperplasia, Lymphoid, Focal Infarct Pigmentation Thrombosis Lymphoid Follicle, Hyperplasia Thymus Atrophy Cyst	1 [2.0] (50) 4 [2.5] 40 [2.8] 7 [1.7] (46) 37 [3.1]	1 [2.0] (50) 2 [3.0] 5 [1.8] 43 [2.8] 5 [1.8] (48) 37 [3.2]	(50) 1 [1.0] 1 [1.0] 1 [3.0] 1 [4.0] 44 [2.9] 7 [1.7] (49) 45 [3.2] 1 [3.0]	(49) 2 [3.5] 1 [3.0] 1 [4.0] 44 [3.1] 1 [2.0] 6 [2.0] (48) 45 [3.2]	
			1 [3.0]		
INTEGUMENTARY SYSTEM					
Mammary Gland Cyst Hyperplasia Skin Cyst Epithelial Inclusion Fibrosis Hyperkeratosis Inflammation, Chronic Ulcer Epidermis, Hyperplasia Sebaceous Gland, Hyperplasia	(50) 8 [3.0] 37 [3.0] (50)	(49) 2 [3.0] 38 [2.8] (50) 1 2 [3.0]	(50) 33 [2.6] (50) 3 1 [4.0] 2 [1.5] 1 [3.0]	(50) 1 [3.0] 42 [2.7] (50) 2 [3.5] 2 [1.0] 1 [3.0] 1 [2.0] 1 [2.0]	
MUSCULOSKELETAL SYSTEM					
Bone Osteopetrosis	(50)	(50) 1 [1.0]	(50)	(50)	
NERVOUS SYSTEM					
Brain Compression Gliosis Hemorrhage	(50) 9 [3.6] 1 [2.0] 2 [1.0]	(50) 10 [3.4] 1 [1.0]	(50) 11 [3.1] 2 [1.5]	(50) 13 [3.5] 3 [1.3]	

a - Number of animals examined microscopically at site and number of animals with lesion

b - Average severity grade (1-minimal; 2-mild; 3-moderate; 4-marked)

Species/Strain: RATS/F 344

Route: DOSED FEED

P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH AVERAGE SEVERITY GRADES[b]

CHROMIUM PICOLINATE MONOHYDRATE

CAS Number: 27882-76-4

Date Report Reqsted: 03/16/2007

Time Report Reqsted: 08:39:18
First Dose M/F: 08/12/02 / 08/12/02

FISCHER 344 RATS FEMALE	0 PPM	2000 PPM	10000 PPM	50000 PPM	
Spinal Cord	(2)	(4)	(3)	(1)	
RESPIRATORY SYSTEM					
Lung	(50)	(50)	(50)	(50)	
Congestion				1 [2.0]	
Foreign Body Hemorrhage	3 [2.0]	1 [2.0]	1 [2.0]	2 [2.0] 4 [1.8]	
Hyperplasia, Lymphoid	3 [2.0]	1 [2.0]	1 [2.0]	1 [2.0]	
Infiltration Cellular, Histiocyte	49 [1.1]	47 [1.1]	47 [1.1]	46 [1.0]	
Inflammation, Chronic	2 [1.5]	4 [1.3]	3 [1.3]	8 [1.4]	
Metaplasia, Osseous	2 [1.0]	2 [1.0]	1 [2.0]	0 [1.1]	
Metaplasia, Squamous	2[0]	1 [2.0]	. [2.0]		
Necrosis	1 [3.0]	. [=]			
Thrombosis	1 [3.0]			1 [1.0]	
Alveolar Epithelium, Hyperplasia	6 [1.3]	5 [1.2]	6 [1.3]	4 [2.0]	
Alveolar Epithelium, Metaplasia, Squamous		1 [2.0]			
Serosa, Hyperplasia	1 [2.0]				
Nose	(50)	(50)	(50)	(50)	
Foreign Body		1 [1.0]		1 [2.0]	
Inflammation, Chronic	5 [1.6]	4 [1.5]	3 [1.7]	3 [2.3]	
Nasolacrimal Duct, Cyst				1 [3.0]	
Turbinate, Dysplasia			1 [4.0]		
SPECIAL SENSES SYSTEM					
Eye	(47)	(49)	(50)	(50)	
Cataract	2 [2.5]	2 [3.0]	1 [4.0]	2 [3.0]	
Edema	1 [2.0]				
Hemorrhage		1 [2.0]			
Inflammation, Chronic				1 [2.0]	
Retinal Detachment	1 [2.0]	4 [0.0]			
Bilateral, Retinal Detachment		1 [2.0]		4 [4 6]	
Cornea, Hyperplasia	1 [4 0]	2 [2 0]	1 [4 0]	1 [1.0]	
Retina, Degeneration Harderian Gland	1 [4.0] (50)	2 [3.0]	1 [4.0] (50)	1 [4.0] (50)	
Hyperplasia, Focal	(50)	(50)	(50) 1 [1.0]	(50)	
Zymbal's Gland	(1)	(0)	(0)	(0)	
Zymbaro Siana	(')	(0)	(0)	(0)	

a - Number of animals examined microscopically at site and number of animals with lesion

b - Average severity grade (1-minimal; 2-mild; 3-moderate; 4-marked)

TDMS No. 99027 - 03
Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/F 344

P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH AVERAGE SEVERITY GRADES[b]

CHROMIUM PICOLINATE MONOHYDRATE

CAS Number: 27882-76-4

Date Report Reqsted: 03/16/2007

Time Report Reqsted: 08:39:18
First Dose M/F: 08/12/02 / 08/12/02

Lab: SRI

FISCHER 344 RATS FEMALE	0 PPM	2000 PPM	10000 PPM	50000 PPM	
URINARY SYSTEM					
Kidney	(47)	(50)	(50)	(50)	
Cyst		1 [3.0]			
Infarct, Chronic			1 [2.0]	4 [0 0]	
Infiltration Cellular, Lymphocyte	40.54.01	47.14.01	40.54.01	1 [2.0]	
Nephropathy	46 [1.3]	47 [1.3]	48 [1.2]	50 [1.2]	
Thrombosis	1 [2.0]	1 [1.0]			
Papilla, Inflammation, Suppurative			1 [2.0]		
Renal Tubule, Hyperplasia	1 [1.0]		1 [2.0]	2 [1.0]	
Transitional Epithelium, Hyperplasia			1 [1.0]		
Transitional Epithelium, Mineralization, Focal		1 [2.0]			
Urinary Bladder	(50)	(50)	(49)	(50)	
Edema			1 [3.0]	1 [3.0]	
Hyperplasia, Lymphoid		1 [1.0]			

*** END OF REPORT ***

a - Number of animals examined microscopically at site and number of animals with lesion

b - Average severity grade (1-minimal; 2-mild; 3-moderate; 4-marked)